

SEQUENCE LISTING

5 <110> Roche Diagnostics GmbH
F. Hoffmann-La Roche AG

<120> Conjugate of a tissue non-specific alkaline phosphatase
and dextran, process for the production of such conjugate and
its use

10 <130> 21323

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15 <150> EP02016244
<151> 2002-07-22

<160> 18

20 <170> PatentIn Ver. 2.1

<210> 1
<211> 42
<212> DNA

25 <213> Artificial Sequence

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35 <210> 2
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<223> Description of Artificial Sequence:primer apCdw

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<213> Homo sapiens

<220>
<223> hutns-AP, pcr-product

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5 agaagctcaa caccaacgtg gctaagaatg tcatcatgtt cctgggagat gggatgggtg
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15 ggaacgaggt cacctccatc ctgcgctggg ccaaggacgc tgggaaatct gtgggcattg
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20 660
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25 gcacgaggct ggacggcctg gacctcgtt acacctggaa gagcttcaaa ccgagacaca
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55 1637

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<211> 524

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<213> Homo sapiens

<220>
5 <223> hutns-AP, protein

<400> 4
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15 Ala Gln Glu Thr Leu Lys Tyr Ala Leu Glu Leu Gln Lys Leu Asn Thr
35 40 45
Asn Val Ala Lys Asn Val Ile Met Phe Leu Gly Asp Gly Met Gly Val
50 55 60
20 Ser Thr Val Thr Ala Ala Arg Ile Leu Lys Gly Gln Leu His His Asn
65 70 75 80
Pro Gly Glu Glu Thr Arg Leu Glu Met Asp Lys Phe Pro Phe Val Ala
85 90 95
25 Leu Ser Lys Thr Tyr Asn Thr Asn Ala Gln Val Pro Asp Ser Ala Gly
100 105 110
30 Thr Ala Thr Ala Tyr Leu Cys Gly Val Lys Ala Asn Glu Gly Thr Val
115 120 125
Gly Val Ser Ala Ala Thr Glu Arg Ser Arg Cys Asn Thr Thr Gln Gly
130 135 140
35 Asn Glu Val Thr Ser Ile Leu Arg Trp Ala Lys Asp Ala Gly Lys Ser
145 150 155 160
Val Gly Ile Val Thr Thr Thr Arg Val Asn His Ala Thr Pro Ser Ala
165 170 175
40 Ala Tyr Ala His Ser Ala Asp Arg Asp Trp Tyr Ser Asp Asn Glu Met
180 185 190
Pro Pro Glu Ala Leu Ser Gln Gly Cys Lys Asp Ile Ala Tyr Gln Leu
195 200 205
45 Met His Asn Ile Arg Asp Ile Asp Val Ile Met Gly Gly Gly Arg Lys
210 215 220
50 Tyr Met Tyr Pro Lys Asn Lys Thr Asp Val Glu Tyr Glu Ser Asp Glu
225 230 235 240
Lys Ala Arg Gly Thr Arg Leu Asp Gly Leu Asp Leu Val Asp Thr Trp
245 250 255
55 Lys Ser Phe Lys Pro Arg His Lys His Ser His Phe Ile Trp Asn Arg
260 265 270
Thr Glu Leu Leu Thr Leu Asp Pro His Asn Val Asp Tyr Leu Leu Gly

	275		280		285	
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5	Thr Asp Pro Ser Leu Ser Glu Met Val Val Val Ala Ile Gln Ile Leu					
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10	Arg Lys Asn Pro Lys Gly Phe Phe Leu Leu Val Glu Gly Gly Arg Ile					
		325		330		335
	Asp His Gly His His Glu Gly Lys Ala Lys Gln Ala Leu His Glu Ala					
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15	Val Glu Met Asp Arg Ala Val Gly Gln Ala Gly Ser Leu Thr Ser Ser					
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	Glu Asp Thr Leu Thr Val Val Thr Ala Asp His Ser His Val Phe Thr					
	370		375		380	
20	Phe Gly Gly Tyr Thr Pro Arg Gly Asn Ser Ile Phe Gly Leu Ala Pro					
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25	Met Leu Ser Asp Thr Asp Lys Lys Pro Phe Thr Ala Ile Leu Tyr Gly					
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	Asn Gly Pro Gly Tyr Lys Val Val Gly Gly Glu Arg Glu Asn Val Ser					
		420		425		430
30	Met Val Asp Tyr Ala His Asn Asn Tyr Gln Ala Gln Ser Ala Val Pro					
		435		440		445
	Leu Arg His Glu Thr His Gly Gly Glu Asp Val Ala Val Phe Ser Lys					
	450		455		460	
35	Gly Pro Met Ala His Leu Leu His Gly Val His Glu Gln Asn Tyr Val					
	465		470		475	480
40	Pro His Val Met Ala Tyr Ala Ala Cys Ile Gly Ala Asn Leu Gly His					
		485		490		495
	Cys Ala Pro Ala Ser Ser Ala Gly Ser Leu Ala Ala Gly Pro Leu Leu					
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	<211> 80					
	<212> DNA					
	<213> Artificial Sequence					
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5 <210> 6
 <211> 80
 <212> DNA
 <213> Artificial Sequence

10 <220>
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20 <210> 7
 <211> 80
 <212> DNA
 <213> Artificial Sequence

25 <220>
 <223> Description of Artificial Sequence:primer APN3_up

 <400> 7
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35 <210> 8
 <211> 80
 <212> DNA
 <213> Artificial Sequence

40 <220>
 <223> Description of Artificial Sequence:primer APN1_dw

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 <223> Description of Artificial Sequence:primer APN2_dw

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<210> 10
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<212> DNA
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<210> 11
<211> 80
<212> DNA
25 <213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer uppel

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gctgggtctgc tgctcctggc
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<210> 12
<211> 81
<212> DNA
40 <213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer dwpel

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<210> 13
<211> 501
<212> DNA
55 <213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:pelB-AP_N

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5 120
gatccgaagt actggcgaga ccaagcgcaa gagacactga aatatgccct ggagcttcag
180
aagctcaaca ccaacgtggc taagaatgtc atcatgttcc tgggagatgg gatgggtgtc
240
10 tccacagtga cggtgcccg catcctcaag ggtcagctcc accacaaccc tggggaggag
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accaggtgg agatggacaa gttccccctc gtggccctct ccaagacgta caacaccaat
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gccaggtcc ctgacagcgc cggcaccgcc accgcctacc tgtgtggggg gaaggccaat
15 420
gagggcaccg tgggggtaag cgcagccact gagcgttccc ggtgcaacac caccagggg
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501
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<210> 14
<211> 41
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25 <213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer
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<400> 14
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<210> 15
<211> 47
<212> DNA
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence:primer
mhuapQEdw

45

<400> 15
atctggatcc ttactaagat ctgcctgccg agctggcagg agcacag
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50

<210> 16
<211> 1539
<212> DNA
<213> Artificial Sequence

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<220>
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pelB-tns-AP-deltaGPI

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5 acactgaaat atgccctgga gcttcagaag ctcaacacca acgtggctaa gaatgtcatc
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10 cagctccacc acaaccctgg ggaggagacc aggctggaga tggacaagtt ccccttcgtg
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360
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15 cgttccccgg gcaacaccac ccaggggaac gaggtcacct ccctcctgcg ctggggccaag
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20 gccgcctacg cccactcggc tgaccgggac tggactcag acaacgagat gccccctgag
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660
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25 tatgagagtg acgagaaagc caggggcacg aggctggacg gcctggacct cgttgacacc
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1440
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<212> PRT
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<223> Description of Artificial Sequence:Protein
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20 25 30

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35 40 45

15 Gln Lys Leu Asn Thr Asn Val Ala Lys Asn Val Ile Met Phe Leu Gly
50 55 60

Asp Gly Met Gly Val Ser Thr Val Thr Ala Ala Arg Ile Leu Lys Gly
65 70 75 80

20 Gln Leu His His Asn Pro Gly Glu Glu Thr Arg Leu Glu Met Asp Lys
85 90 95

25 Phe Pro Phe Val Ala Leu Ser Lys Thr Tyr Asn Thr Asn Ala Gln Val
100 105 110

Pro Asp Ser Ala Gly Thr Ala Thr Ala Tyr Leu Cys Gly Val Lys Ala
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30 Asn Glu Gly Thr Val Gly Val Ser Ala Ala Thr Glu Arg Ser Arg Cys
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Asn Thr Thr Gln Gly Asn Glu Val Thr Ser Ile Leu Arg Trp Ala Lys
145 150 155 160

35 Asp Ala Gly Lys Ser Val Gly Ile Val Thr Thr Thr Arg Val Asn His
165 170 175

40 Ala Thr Pro Ser Ala Ala Tyr Ala His Ser Ala Asp Arg Asp Trp Tyr
180 185 190

Ser Asp Asn Glu Met Pro Pro Glu Ala Leu Ser Gln Gly Cys Lys Asp
195 200 205

45 Ile Ala Tyr Gln Leu Met His Asn Ile Arg Asp Ile Asp Val Ile Met
210 215 220

Gly Gly Gly Arg Lys Tyr Met Tyr Pro Lys Asn Lys Thr Asp Val Glu
225 230 235 240

50 Tyr Glu Ser Asp Glu Lys Ala Arg Gly Thr Arg Leu Asp Gly Leu Asp
245 250 255

55 Leu Val Asp Thr Trp Lys Ser Phe Lys Pro Arg His Lys His Ser His
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Phe Ile Trp Asn Arg Thr Glu Leu Leu Thr Leu Asp Pro His Asn Val
275 280 285

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    Asp Tyr Leu Leu Gly Leu Phe Glu Pro Gly Asp Met Gln Tyr Glu Leu
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10   Glu Gly Gly Arg Ile Asp His Gly His His Glu Gly Lys Ala Lys Gln
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    Ala Leu His Glu Ala Val Glu Met Asp Arg Ala Val Gly Gln Ala Gly
      355                               360                               365

15   Ser Leu Thr Ser Ser Glu Asp Thr Leu Thr Val Val Thr Ala Asp His
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    Ser His Val Phe Thr Phe Gly Gly Tyr Thr Pro Arg Gly Asn Ser Ile
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    Phe Gly Leu Ala Pro Met Leu Ser Asp Thr Asp Lys Lys Pro Phe Thr
      405                               410                               415

25   Ala Ile Leu Tyr Gly Asn Gly Pro Gly Tyr Lys Val Val Gly Gly Glu
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    Arg Glu Asn Val Ser Met Val Asp Tyr Ala His Asn Asn Tyr Gln Ala
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30   Gln Ser Ala Val Pro Leu Arg His Glu Thr His Gly Gly Glu Asp Val
    450                               455                               460

    Ala Val Phe Ser Lys Gly Pro Met Ala His Leu Leu His Gly Val His
    465                               470                               475                               480

    Glu Gln Asn Tyr Val Pro His Val Met Ala Tyr Ala Ala Cys Ile Gly
      485                               490                               495

40   Ala Asn Leu Gly His Cys Ala Pro Ala Ser Ser Ala Gly Arg Ser
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      <212> DNA
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      22

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